





The transport and distribution environment holds numerous opportunities for packages to experience impacts and/or drops. As a result, shock is transmitted both into, and throughout, a given package. The products within the packaging respond to both the amplitude and frequency characteristics of the shock. How the various packaging components mitigate that shock determines how much shock is transmitted into the product held within. Lansmont Drop Test Systems are used to perform pre-shipment testing in an effort to design and verify cost-effective, optimized protective packaging solutions.

PERFORMANCE SPECIFICATIONS Maximum Package Weight: Standard platen 177 lbs. (80.0 kg) Extended platen option 150 lbs. (68.0 kg) Maximum Package Size: 24.0 in. (61.0 cm) front to back Standard platen Extended platen option 36.0 in. (91.5 cm) front to back **Drop Height Range:** Standard baseplate 12.0 - 72.0 in. (30.5 - 183 cm) Slotted baseplate option 1.0 - 72.0 in. (2.5 - 183 cm) Extended platen option 18.0 - 72.0 in. (45.7 - 183 cm)

* Extended drop height available.



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PDT 80 Precision Drop Tester

Lansmont Field-to-Lab®

FEATURES



Handheld Controller:

The rugged handheld controller provides all necessary functionality for using Lansmont's Precision Drop Test Systems. The user can select the desired drop height via the controller and the machine will automatically move the drop platen to this height setting. No tape measure or manual adjustment is needed. All important information about the drop tester or the current settings is easily read on the LED screen on the front of the controller pendant.



straight down faster than the package and then swings out of the way in time to clear the path for the package's free fall.

Precision Cam Design:

Lansmont's precision cam and bearings design is a key machine feature for producing a flat drop event. When the drop tester is armed and fired, the drop leaf first moves



If you are changing drop heights frequently or testing heavier packages, it pays to have a lifting mechanism to keep you from having to do all of

Electric Hoist:

this work manually. The PDT 80 features an electric and test package.

OPTIONS



The optional flexible structure mounts to the drop tester and holds packages in position prior to the

performing edge or corner drops.

Edge and Corner Holding Fixture:

drop event when



Extended Platen:

If your package dimensions are too big for the standard platen, we offer an optional extended platen to accommodate

larger package sizes. The extended platen holds packages with a front-to-back dimension of up to 36 inches.

Slotted and Oversized Baseplates:

> For customers that need to test to drop heights below 12 inches, we have a slotted baseplate

option and foundation kit that allows for drops as low as 1 inch.

Larger packages may necessitate a larger impact surface. We offer an oversized baseplate which widens the impact area from the standard 36 inches to 60 inches.

hoist for raising and lowering the drop leaf assembly

Test Partner **Data Acquisition:**

Lansmont's Test Partner sets the standard for data acquisition systems used for laboratory impact testing.

Test Partner is a powerful combination of software and hardware specifically tailored to capture and analyze mechanical shock, drop, and impact events. It can acquire up to sixteen channels of acceleration data simultaneously.

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APPLICATIONS



Controlled Orientation

Test procedures and industry standards specify the requirement for controlled orientation drops, resulting in test sample impacts on predetermined faces, corners and edges. Lansmont Precision Drop testers are built in accordance with ASTM D5276 requirements.





Hazard Drops

In reality, not all items are dropped on flat, laboratory-style floors. In fact, some small parcel distribution tests require drops to occur on a predetermined hazard.

Product Drops

Lansmont customers use drop testers to perform bare product drop testing to simulate in-use events that may occur once out of their protective packaging and in the hands of the consumer.



Extended Height Dangerous goods packages undergo severe drop tests during certification testing. Other high performance products and packages also need to survive high energy impacts. Lansmont offers extended height drop testers to satisfy these testing applications. Custom drop height options are available to extend vour machine's drop height range.

MADE TO ORDER

Not quite the equipment size or performance level that you need? If we do not already manufacture the test machine ideally suited for your company's testing applications, our engineering team can custom design a test system specific to your needs.





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SPECIFICATIO	NS		
UTILITIES			
Power -			
Standard voltages:	110 VAC - 1 phase - 60 Hz. (10 amps)		220 VAC - 1 phase - 50 Hz. (5 amps)
Optional voltages:	100 VAC - 1 phase - 50 Hz. (10 amps)		200 VAC - 1 phase - 50 Hz. (5 amps)
	100 VAC - 1 ph	ase - 60 Hz. (10 amps)	220 VAC - 1 phase - 60 Hz. (5 amps) 200 VAC - 1 phase - 60 Hz. (5 amps)
Plant Air -			200 VAC - 1 phase - 00 Hz. (3 amps)
Pressure:	40 - 60 psi (2.8 - 4.1 bar)		
Flow Rate:	0.5 scfm		
MACHINE DIMENSIONS (standard machine)			
Height:	106 in. (269 cm)		
Baseplate width:	36 in. (91 cm)		
Baseplate length:	55.5 in. (141 cm)		
CRATE INFORMATION (standard machine)			
Height:	31 in. (79 cm)		
Width:	40 in. (102 cm)		
Length:	111 in. (282 cm)		
Shipping Weights:	Gross Weight Net Weight	865 lbs. (392 kg) 544 lbs. (247 kg)	

